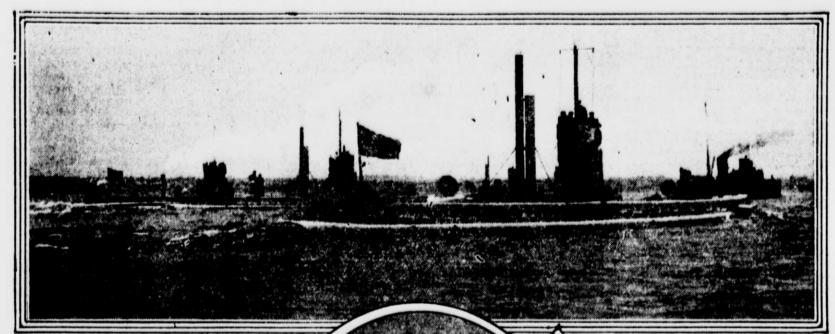
VICTORY OF SUBMARINES PROVE THEIR EFFECTIVENESS IN ACTUAL WARFARE



Flotilla of German submarines at

Much of the Attacking Power of the Dreadnought Discounted by Demonstrated Efficiency of Under Water Craft of British and German Navies -- How the Crews Are Trained

HE submarine has demonstrated its power as a naval weapon. The 6th of September, 1914, will ong be remembered as the day n this modern under water craft proved its efficiency, for on that one of the German flotilla sent the lish scout cruiser Pathfinder to her

that day closed a boat of the U class of submarine incau lously exposed her coming tower in the midst of seven British warships and ere she could dive again her body was shattered and down she plunged like a broken bottle. How-ever, to the strategist the sacrifice of the submarine was a bagatelle compared with the cruiser which one of her companions had previously destroyed. Seven days later the British scored in kind by way of retallation when the big submarine E-9 caught the German cruiser Hela unawares and sank her off Withelmshaven. But the German commanders of these new weapens of naval warfare were apparently inspired to still greater deeds of daring. In onetwo-three order the Kaiser's submarines nine days later sent three of England's armored cruisers to the bottom, and while the ships themselves were nearly obsolete as battle eraft, the toll of life, amounting to more than 1,500 men, is a ish navy, while it may gravely affect the this they

The German submarines have accom-lished in fact the very thing for which recharge their batteries while using they have been zotlously and secretly their oil motors. practising for a long time. According to the news accounts, the three cruisers are so-called high sea boats, and most Aboukir, Cressy and Hogue were sunt of them are of the latest design and point north and west of the Hook thorough

great significance for the British floor Helgoland. Now Helgoland is approximately 250 miles north of the Hork of Holland and this gives an idea of the working radius of the Grman boats, which must have fuel enough in store to carry them that distance and take them back to their base again. Some of these boats have a cruising radius at reduced surface speed of possibly 2,000 miles, but it must be remembered that miles, but it must be remembered that in time of war they would probably make stretches of a run like that to the he said that the submarine had sounded it was by means of submarines that the British lured the Germans out from neighborhood of the coast of Holland the death knell of the dreadnought.

ing battle squadron.

To do that the underwater boats of exhaust is apt to leave a long trail of England had a long way to go and for telltale bubbles upon the surface. Charles and a long way to go and for telliale bubbles upon the surface, days were exposed to rigorous weather, clearly marking the path of the aplut there are still odds in favor of the Germans. Broadly speaking, the lem of supplying sufficient air for the Kaiser's fleet is on the defensive and engines under such circumstances is he German fields of submarine mines serious one. These difficulties are no ep the English underwater boats at ay. Purposely the British authorities has so used up her supply of compressed



The German emergency breathing and safety apparatus for submarine crews.

True, the British submarines are has a greater number of themy. Already

the British lured the Germans out from

And yet to-day some measure of the have done little to obstruct their navigable waters in order that the nation's have been quite unjustified. commerce and source of food supplies probably quite the equal of the rival German boats, and England actually ingly England's defence is a mobile one marine in his defended by the essentials of a splendid sort of subingly England's defence is a mobile one marine in his designs, and from the and the burden falls upon her battle very first boat, the U-1, the so-called fleet, and it is this very force for which Krupp underwater craft have been the German submarines are lying in wait and even going half way to meet,

> Admiral von Tirpitz, the guiding genius a new boat as the term applies in the marines a matter of \$17,962,265, while water boats. e German Government has devoted \$18,355.360, so far as the public knows. the unbuilding of this type of torpedo These latest vessels are of a particu-

rines was based upon a revelation which spondingly more potent factors in the prehensively Mme. de Thebes made this came to her during the grand naval manœuvres in the autumn of 1912. In those operations the underwater craft performed in an unexpectedly brilliant fashion, and their conduct opened the eyes of the Kaiser's naval strategists. The fine sea keeping qualities of the Krupp boats and the ease with which they succeeded on several occasions in surprising and "torpedoing" certain of the big ships impressed the Admirally officials present at the war game, and when the exercises were game, and when the exercises were ended the officers and men of the underwater flotilla were particularly congratulated for the showing they had game, and when the exercises were ended the officers and men of the underwater flottila were particularly contained for the showing they had showing the showing they had showing they had showing the showing the

According to the Berlin correspondent of the Naval and Military Record, when the facts leaked out half a year later, "A noteworthy feature of the exercises, according to one report, was the comparative immunity enjoyed by the submarines even when delivering attacks in broad daylight, for from beginning to end only two boats were ruled out of action. According to stories which were current after the maneuvres, the submarines rarely discharged their torpedoes at a range exceeding 400 yards, while more than once the disin broad daylight, for from beginning yards, while more than once the distance was considerably less. Yet in hardiy a single instance was their pressure remarked by the object ships in time to direct fire at them."

The Germans are bent upon making their hits as certain as possible, and their hits as certain as possible, and the distance was considerably less. Yet in hardiy a single instance was their pressure to the provision is only a part way help and not an effectual check.

Americans will be liable to display more interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, the younger, interest in her statements in regard to ago Alexandre Dumas, and alexandre Duma

lately been disclosed. In this manner of running they have unquestionably been immensely helped by the gyroscopic compasses of German make with which the vessels of the submarine flotilla have long been equipped.

The North Sea has been their favorite field for exercise, and the boats hav been frequently sent from the mainland to Helgoland and back again when the cather was stormy. Each of these spectacular performances has been duly recognized, and in the most noteworthy cases the Kaiser has personally con-gratulated the commander and his crew.

So long as the submarine keeps below the surface of the sea she is safe from attack on the part of ordinary fighting ships. For purposes of observation the submerine need not expose any vital part of her body and the shooting away of her periscope merely blinds her in a measure. With this power of sight destroyed the boat can either go to the bottom, provided the depth does not exceed the pressure resisting strength of her hull, and rest there until the enemy her gyroscopic compass, and steal away submerged to the propulsive limits of her storage batteries. The destruction of her periscope need not of itself force her to come to the surface, nor would such an injury hurt her structurally. Just what the submerged speed of the German boats may be is a German navy secret. It has been suspected that the vessels are so designed that they can use their oil-engines for submerged propulsion for limited periods in making a sudden dash or spurt.

greater than that of the electric drive Helgoland and then destroyed three of using energy from storage batteries, but the Kaiser's cruisers and two of her two drawbacks bave hitherto hampered destroyers by the gunfire of the wait- the employment of the explosive engine when running under water. bubbles upon the surface, insurmountable, but a submarine that air is like a runner at the end of his race, and the boat would have to come to the surface a short while afterward if she had recourse to this emergence manouvre.

This possibly explains some of rather remarkable performances of the Kaiser's submarines during the various war games in the North Sea and, too, probably accounts for the manner in which one of the U class was forced to the surface after the Pathfinder was sunk. She came there to breathe, so t peak, and we know the penalty the British guns exacted.

vided. Primarily, these devices are designed to facilitate escape from the boat should the vessel sink and the air become foul or the compartments fleeded. of courage bent upon doing a daring deed would willingly don these belimets in order that the last breath of good in the craft might be turned int. sired, thus getting speedily and unexpectedly within sure striking distance

inception to a Spanish subject, R. and at the best possibly eight. Fired d'Equevilley, born in 1873 and later educated in France. M. d'Equevilley began hit are not particularly good when the building of submarine boats in 1902 alming must be done from the low the construction of the Forelle for boint of observation which the perthe Russian Government. In 1905 he presented plans to the French Admi-taytl and even worked for a while, so it is obvious why the Germans have stu-ies said. In the French Ministry of Marine and in that department devoted their targets, and it the sudden sinking of the Aboukir, Cressy and Hogue are

The authorities, however, gave him no which makes a hit for nearly each tor substantial encouragement, and accordingly he took his designs to Germany and laid them before the experts has not been sounded, but much of its of the great Krupp works. The result power of attack has been discounted by Spanish subject had learned all about mail. Engineer Laubeuf's submarines and was fully advised as to the best of French practice. This attack was declared to

However, he undoubtedly had all of a distinctly superior order, otherwise the people. Kaiser's flotillas could not have done the As has been said, the Kaiser has been things that stand to their credit. The reparing for this very thing, despite U-9, to which Berlin gave the credit of

What may not be done by her larger sisters when the German strategists see fit to send them abroad in the North THE SUN called on Mme. de Thebes Sea and elsewhere in the waters adjacraft, and the greatest addition has been made during the past twelve months. French coast? The Germans are playing a strictly defensive game with their princess. She granted the correspondent of something just short of 1,000 tons displacement when submerged, and rumor has it that their surface speed is in the neighborhood of eighteen knots.

Segmany's sudden for the submarine, displacement when submerged is in the neighborhood of eighteen knots. then they may be able to lessen the metal disparity of forces and make their own dreadnoughts and armored ships correction 1914. After covering this point com-

perfection of the product, because the art calls for expert knowledge and special facilities in the building. The submarine in its getup hears about the

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speed of 38 knots at the start. In point f speed this lags considerably behind All of the German boats are equipped the kindred weapons of other nations, with a special form of safety helmet but its preeminence lies in the extremely heavy bursting charge carried and emergency breathing apparatus tremely heavy bursting charge carried and each member of the crew is so pro-And here, again, is another advantage in the substitution of trinitrotoluol for the guncotton ordinarily employed. This new explosive deals, weight for But it is quite within reason that men of courage bent upon doing a daring guncotton, is safer to handle and does not undergo deterioration through time and exposure like its older rival. The manner in which the British cruisers were torn asunder is pretty good evi-

material in their torpedoes. The submarine carries only a few tor-The German submarines owe their pedoes, on an average not more than six particularly to the development of of the Aboukir. Cressy and Hogue are underwater craft.

THE European war has recalled to the minds of readers of THE Sun some of the prophecies made in 1913 by Mme, de Thebes, the Paris prophetess, who has the confidence of many of the French As far as France is concerned the fact that she foretold the San Francisco earthquake, that she predicted the death of Felix Faure, President of he fact that only a few years back sinking the three British cruisers, is not France, about which there still exists a mystery; that she warned Chavez of the Germany navy, unequivocally art of submarine navigation to-day, not to attempt the Alps and Col. John denied the military value of this fight.

Built four years ago and having a suring arm. In the course of the past five years England has spent upon her sub-1914 is the prediction that has ingreased Mme. de Thebes's prestige throughout her own country

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United States has not been drawn into

Now that Mme, de Thebes's prestige submarine in its getup bears about the same relation to a battleship in mechanical nicety that a high priced chronometer does to an ordinary 50 cent submarine in the building. The Americans, who are considered too practical to trust even Mme. 3. Thebes, dents and the failure of the exhibition of 1900. She predicted the death of More respect. However, Mme. 4. King Humbert, and cautioned the Marchine along the submarine in its getup bears about the change of the exhibition of 1900. She predicted the death of More respect. However, Mme. 4. Thebes's prophecies did not end with quis de Mores not to go to Africa. She predicted the hands of kings, princes.

The Germans are bent upon making their hits as certain as possible, and to that end the submarine commanders practise running totally submerged upon compass routes in order to reach unobserved a point where they can fire their toppedoes at close range. How well their training has prepared them for their work in time of war has

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